RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/627,685A_

Source: _1,FW16_

Date Processed by STIC: _1/21/05_

ENTERED

RAW SEQUENCE LISTING   DATE: 01/21/2005
PATENT APPLICATION: US/10/627,685A   TIME: 16:03:09

Input Set : A:\268.revised sequence.txt
Output Set: N:\CRF4\01212005\J627685A.raw

```
 3 <110> APPLICANT: Cornell-Bell, Ann H.
 4        Pemberton, Karen E.
 5        Temple Jr., Davis L.
 6        Layer, Richard T.
 7        McCabe, R. Tyler
 8        Jones, Robert M.
 9        Cognetix, Inc.
11 <120> TITLE OF INVENTION: Uses of Kappa-Conotoxin PVIIA
13 <130> FILE REFERENCE: 2314-268
15 <140> CURRENT APPLICATION NUMBER: US 10/627,685A
16 <141> CURRENT FILING DATE: 2003-07-28
18 <150> PRIOR APPLICATION NUMBER: US 09/666,837
19 <151> PRIOR FILING DATE: 2000-09-21
21 <150> PRIOR APPLICATION NUMBER: US 60/219,438
22 <151> PRIOR FILING DATE: 2000-07-20
24 <150> PRIOR APPLICATION NUMBER: US 60/155,135
25 <151> PRIOR FILING DATE: 1999-09-22
27 <160> NUMBER OF SEQ ID NOS: 26
29 <170> SOFTWARE: PatentIn Ver. 2.0
31 <210> SEQ ID NO: 1
32 <211> LENGTH: 27
33 <212> TYPE: PRT
34 <213> ORGANISM: Conus purpurascens
36 <220> FEATURE:
37 <221> NAME/KEY: PEPTIDE
38 <222> LOCATION: (1)..(27)
39 <223> OTHER INFORMATION: Xaa at residue 2, 7, 18, 19, 22 and 25 may be Arg,
40        homoarginine, ornithine, Lys, N-methyl-Lys,
41        N,N-dimethyl-Lys, N,N,N-trimethyl-Lys, any
42        synthetic basic amino acid, His or halo-His; Xaa at
44 <220> FEATURE:
45 <221> NAME/KEY: PEPTIDE
46 <222> LOCATION: (1)..(27)
47 <223> OTHER INFORMATION: residue 4 may be Pro or Hyp; Xaa at residue 9 and
48        23 may be Phe,Tyr, meta-Tyr, ortho-Tyr, nor-Tyr,
49        mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr,
50        O-phospho-Tyr, nitro-Tyr, Trp (D or L), neo-Trp,
52 <220> FEATURE:
53 <221> NAME/KEY: PEPTIDE
54 <222> LOCATION: (1)..(27)
55 <223> OTHER INFORMATION: halo-Trp (D or L) or any synthetic aromatic amino
56        acid; Xaa at residue 11 is His or halo-His
58 <400> SEQUENCE: 1
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     63              20                  25
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     73 <222> LOCATION: (1)..(27)
     74 <223> OTHER INFORMATION: Xaa is Hyp
     76 <400> SEQUENCE: 2
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     81              20                  25
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     86 <212> TYPE: PRT
     87 <213> ORGANISM: Conus purpurascens
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     91 <222> LOCATION: (1)..(27)
     92 <223> OTHER INFORMATION: Xaa is Hyp
     94 <400> SEQUENCE: 3
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     99              20                  25
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    104 <212> TYPE: PRT
    105 <213> ORGANISM: Conus purpurascens
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    109 <222> LOCATION: (1)..(27)
    110 <223> OTHER INFORMATION: Xaa is Hyp
    112 <400> SEQUENCE: 4
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    114  1               5                  10                  15
    116 Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
    117              20                  25
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    121 <211> LENGTH: 27
    122 <212> TYPE: PRT
    123 <213> ORGANISM: Conus purpurascens
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    126 <221> NAME/KEY: PEPTIDE
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128 <223> OTHER INFORMATION: Xaa is Hyp
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135               20               25
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140 <212> TYPE: PRT
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144 <221> NAME/KEY: PEPTIDE
145 <222> LOCATION: (1)..(27)
146 <223> OTHER INFORMATION: Xaa is Hyp
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150   1               5               10               15
152 Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
153               20               25
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158 <212> TYPE: PRT
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164 <223> OTHER INFORMATION: Xaa is Hyp
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168   1               5               10               15
170 Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
171               20               25
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175 <211> LENGTH: 27
176 <212> TYPE: PRT
177 <213> ORGANISM: Conus purpurascens
179 <220> FEATURE:
180 <221> NAME/KEY: PEPTIDE
181 <222> LOCATION: (1)..(27)
182 <223> OTHER INFORMATION: Xaa is Hyp
184 <400> SEQUENCE: 8
W--> 185 Cys Arg Ile Xaa Asn Gln Lys Cys Phe Gln His Leu Asp Asp Cys Cys
186   1               5               10               15
188 Ser Arg Lys Cys Asn Arg Phe Asn Ala Cys Val
189               20               25
192 <210> SEQ ID NO: 9
193 <211> LENGTH: 27
194 <212> TYPE: PRT
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                RAW SEQUENCE LISTING              DATE: 01/21/2005
                PATENT APPLICATION:  US/10/627,685A    TIME: 16:03:09

                Input Set : A:\268.revised sequence.txt
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        197 <220> FEATURE:
        198 <221> NAME/KEY: PEPTIDE
        199 <222> LOCATION: (1)..(27)
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        207               20                    25
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        212 <212> TYPE: PRT
        213 <213> ORGANISM: Conus purpurascens
        215 <220> FEATURE:
        216 <221> NAME/KEY: PEPTIDE
        217 <222> LOCATION: (1)..(27)
        218 <223> OTHER INFORMATION: Xaa is Hyp
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        222   1               5                   10                  15
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        225               20                    25
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        230 <212> TYPE: PRT
        231 <213> ORGANISM: Conus purpurascens
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        234 <221> NAME/KEY: PEPTIDE
        235 <222> LOCATION: (1)..(27)
        236 <223> OTHER INFORMATION: Xaa is Hyp
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        243               20                    25
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        246 <211> LENGTH: 27
        247 <212> TYPE: PRT
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        251 <221> NAME/KEY: PEPTIDE
        252 <222> LOCATION: (1)..(27)
        253 <223> OTHER INFORMATION: Xaa is Hyp
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        257   1               5                   10                  15
        259 Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
        260               20                    25
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      264 <212> TYPE: PRT
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      268 <221> NAME/KEY: PEPTIDE
      269 <222> LOCATION: (1)..(27)
      270 <223> OTHER INFORMATION: Xaa is Hyp
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      274  1               5                   10                  15
      276 Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
      277              20                  25
      280 <210> SEQ ID NO: 14
      281 <211> LENGTH: 27
      282 <212> TYPE: PRT
      283 <213> ORGANISM: Conus purpurascens
      285 <220> FEATURE:
      286 <221> NAME/KEY: PEPTIDE
      287 <222> LOCATION: (1)..(27)
      288 <223> OTHER INFORMATION: Xaa is Hyp
      290 <400> SEQUENCE: 14
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      295              20                  25
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      299 <211> LENGTH: 27
      300 <212> TYPE: PRT
      301 <213> ORGANISM: Conus purpurascens
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      304 <221> NAME/KEY: PEPTIDE
      305 <222> LOCATION: (1)..(27)
      306 <223> OTHER INFORMATION: Xaa is Hyp
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      313              20                  25
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      317 <211> LENGTH: 27
      318 <212> TYPE: PRT
      319 <213> ORGANISM: Conus purpurascens
      321 <220> FEATURE:
      322 <221> NAME/KEY: PEPTIDE
      323 <222> LOCATION: (1)..(27)
      324 <223> OTHER INFORMATION: Xaa is Hyp
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W-->  327 Cys Arg Ile Xaa Asn Ala Lys Cys Phe Gln His Leu Asp Asp Cys Cys
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 2,4,7,9,11,16,19,22,23,25
Seq#:2; Xaa Pos. 4
Seq#:3; Xaa Pos. 4
Seq#:4; Xaa Pos. 4
Seq#:5; Xaa Pos. 4
Seq#:6; Xaa Pos. 4
Seq#:7; Xaa Pos. 4
Seq#:8; Xaa Pos. 4
Seq#:9; Xaa Pos. 4
Seq#:10; Xaa Pos. 4
Seq#:11; Xaa Pos. 4
Seq#:12; Xaa Pos. 4
Seq#:13; Xaa Pos. 4
Seq#:14; Xaa Pos. 4
Seq#:15; Xaa Pos. 4
Seq#:16; Xaa Pos. 4
Seq#:17; Xaa Pos. 4
Seq#:18; Xaa Pos. 4
Seq#:19; Xaa Pos. 4
Seq#:20; Xaa Pos. 4
Seq#:21; Xaa Pos. 4
Seq#:22; Xaa Pos. 4
Seq#:23; Xaa Pos. 4
Seq#:25; Xaa Pos. 4
Seq#:26; Xaa Pos. 4

VERIFICATION SUMMARY   DATE: 01/21/2005
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Input Set : **A:\268.revised sequence.txt**
Output Set: **N:\CRF4\01212005\J627685A.raw**

```
L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
M:341 Repeated in SeqNo=1
L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
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